

Features and Benefits

- Compliant with Serial ATA Specification 3.0, Compliant with PCIe 2.0 specifications.
- Supports communication speeds of 6.0 Gbps, 3.0 Gbps, and 1.5 Gbps
- Supports programmable transmitter signal levels.
- Supports Gen 1i, Gen 1x, Gen 2i, Gen 2m, Gen 2x, and Gen 3i.
- Supports two SATA/eSATA ports.
- Supports AHCI 1.0 and IDE programming interface.
- Supports Native Command Queuing (NCQ).
- Supports Port Multiplier FIS based switching or command based switching.
- Supports Partial and Slumber Power Management states.
- Supports Hot plug and Hot Swap.
- Compatible with SATA 6G, 3G and 1.5G Hard Drives
- Supports RAID levels: 0 / 1

Bus Interface

- PCI-Express x1

Connectors

- 2x SATA /eSATA connectors

System Requirements

- PCI Express-enabled system with one available PCI Express slot
- Windows® 8 / 7 (32/64 bit)/Vista (32/64 bit)/XP/Server 2003/2008

Package Contents

- 1 x PCIe SATA III 6Gb/s Card
- 1 x Driver CD
- 1 x User Manual

Note: Contents may vary depending on country/market

Create Raid

(For more details, refer to User Manual in PDF format on the Driver CD)

- Turn on your computer, follow the prompt, and press Ctrl + M for the RAID setup screen.
- Use keyboard arrow keys select "RAID", and press Enter.
- "RAID Config" will be shown, press select "Create VD" to start creating Virtual Disk
- Use keyboard arrow keys and <Space> to select disks in Free Physical Disks list. Selected Disks will be marked with ***.
- Press Next to proceed configuring Virtual Disks.
- Select RAID Level (RAID Mode): RAID 0 (Stripe) or RAID 1 (Mirror).
- Select Stripe Size (Stripe Block Size): 32K, 64K or 128K
- Select Quick Init (Quickly erase old data on the hard drives when creating the array): Yes or No.
- Select Cache Mode (Write Thru or WriteBack)
- Enter VD Name (RAID Array Name for identification).
- Select Next to finish the configuration setup.
- Select Yes to confirm Virtual Disk creation.
- The new array set will be listed under Virtual Disks.
- Press ESC and Y to save and exit Marvell BIOS Setup

Delete a RAID Array :

- Select the RAID Array under Virtual Disks and press <Enter>
- Use keyboard arrow keys <Space> and to select VD
- Select Next and Y
- Press ESC and Y to save and exit Marvell BIOS Setup.

Drivers Installation

For Windows® XP/Server 2003 (32bit)

For A New Windows Installation

A new installation requires a floppy disk for the driver installation. To make this floppy disk, copy the contents of the "Marvell\9170\Windows 2003_XP\miniport\Floppy32" folder found on the driver CD, onto a blank floppy disk then follow the directions below.

1. After completed the Raid establish, follow Microsoft's Windows installation procedure.
2. At the Windows Setup screen, press F6 to install the driver.
3. When prompted, press S to specify the location of the driver.
4. Insert the floppy disk, and then press Enter.
5. Scroll to Marvell shared library (install first) using the arrow keys and press Enter to select.
6. Press S again to select the second device.
7. Scroll to Marvell 9170 SATA Controller 32bit Driver and press Enter to select.
8. Press Enter to complete the installation of drivers.
9. Continue with the Windows OS installation.

For An Existing Windows Installation

1. Please insert the driver CD bundled with PCIe SATA 6G Card into your CD-ROM Drive.
2. At the Windows desktop, click Start, and then Run.
3. Type D:\Marvell\9170\Windows 2003_XP\miniport\i386, click OK. (Change D:\ to match your CD-ROM drive letter)
4. Follow the on-screen instructions to complete the installation.
5. Restart Windows to complete the installation.

For Windows® XP/Server 2003(64bit)

For A New Windows Installation

A new installation requires a floppy disk for the driver installation. To make this floppy disk, copy the contents of the "Marvell\9170\Windows 2003_XP\miniport\Floppy64" folder found on the driver CD, onto a blank floppy disk then follow the directions below.

1. After completed the Raid establish, follow Microsoft's Windows installation procedure.
2. At the Windows Setup screen, press F6 to install the driver.
3. When prompted, press S to specify the location of the driver.
4. Insert the floppy disk, and then press Enter.
5. Scroll to Marvell shared library (install first) using the arrow keys and press Enter to select.
6. Press S again to select the second device.
7. Scroll to Marvell 9170 SATA Controller 64bit Driver and press Enter to select.
8. Press Enter to complete the installation of drivers.
9. Continue with Windows OS installation.

For An Existing Installation

1. Please insert the Driver CD bundled with PCIe SATA 6G Card into your CD-ROM Drive.
2. At the Windows desktop, click Start, and then Run.
3. Type D:\Marvell\9170\Windows 2003_XP\miniport\amd64, click OK. (Change D:\ to match your CD-ROM drive letter)

4. Follow the on-screen instructions to complete the installation.
5. Restart Windows to complete the installation.

For Windows® 7/Vista (32bit)

For A New Windows Installation

1. After completed the Raid establish, follow Microsoft's Windows installation procedure.
2. At the Windows Setup screen, press Load Driver to install the driver.
3. Insert the Driver CD bundled with PCIe SATA 6G Card into your CD-ROM Drive, please select Marvell 9170 SATA 6G Controller(D:\Marvell\9170\Win8_7_Vista_Win2008\storport\i386), then press Next. (Change D:\to match your CD-ROM drive letter)
4. Continue with Windows OS installation.

For An Existing Installation

1. Please insert the Driver CD bundled with PCIe SATA 6G Card into your CD-ROM Drive.
2. At the Windows desktop, click Start, and then Run.
3. Type D:\Marvell\9170\Win8_7_Vista_Win2008\storport\i386, click OK. (Change D:\to match your CD-ROM drive letter)
4. Follow the on-screen instructions to complete the installation.
5. Restart Windows to complete the installation.

For Windows® 7-x64/Vista-x64

For A New Windows Installation

1. After completed the Raid establish, follow Microsoft's Windows installation procedure.
2. At the Windows Setup screen, press Load Driver to install the RAID driver.
3. Insert the Driver CD bundled with PCIe SATA 6G Card into your CD-ROM Drive, please select Marvell 9170 SATA 6G Controller (D:\Marvell\9170\Win8_7_Vista_Win2008\storport\amd64), then press Next. (Change D:\to match your CD-ROM drive letter)
4. Continue with Windows OS installation.

For An Existing Installation

1. Please insert the Driver CD bundled with PCIe SATA 6G Card into your CD-ROM Drive.
2. At the Windows desktop, click Start, and then Run.
3. Type D:\Marvell\9170\Win8_7_Vista_Win2008\storport\amd64, click OK. (Change D:\to match your CD-ROM drive letter)
4. Follow the on-screen instructions to complete the installation.
5. Restart Windows to complete the installation.

To Verify Driver Installation

1. Right click My Computer and click Manage.
2. Select Device Manager.
3. Look for the following:

Windows® XP/2003: Double click SCSI and RAID controller:

-Marvell 91xx SATA 6G RAID Controller should be displayed

Windows® Vista/7: Double click Storage controllers:

-Marvell 91xx SATA 6G RAID Controller should be displayed